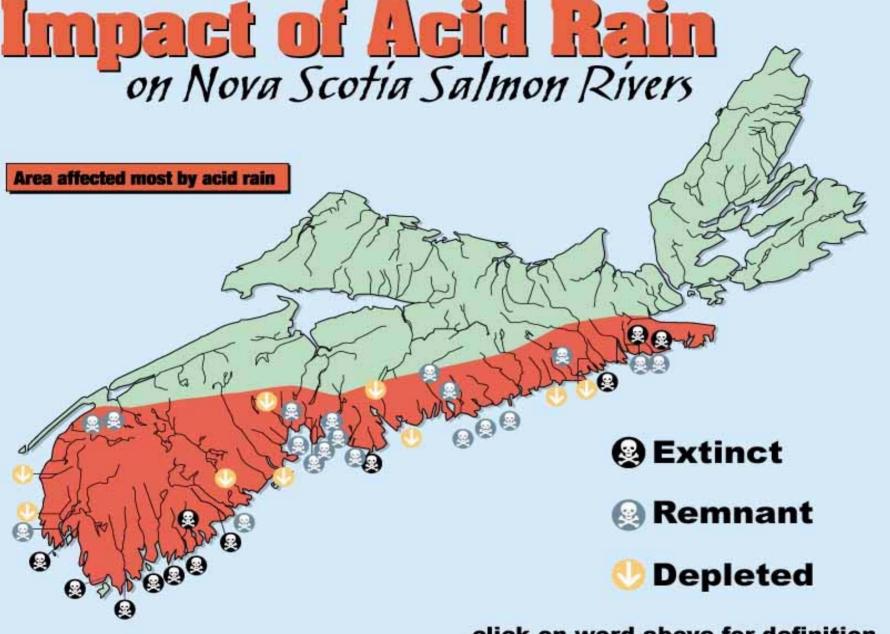
Interactions between wild and escaped farmed salmon in Atlantic Canada



Introduction to ASF

- Environmental NGO
- Mandate for conservation and wise use of wild Atlantic salmon
- Science based advocacy organization
- We have tightly focused concerns about wild/farmed Atlantic salmon issues





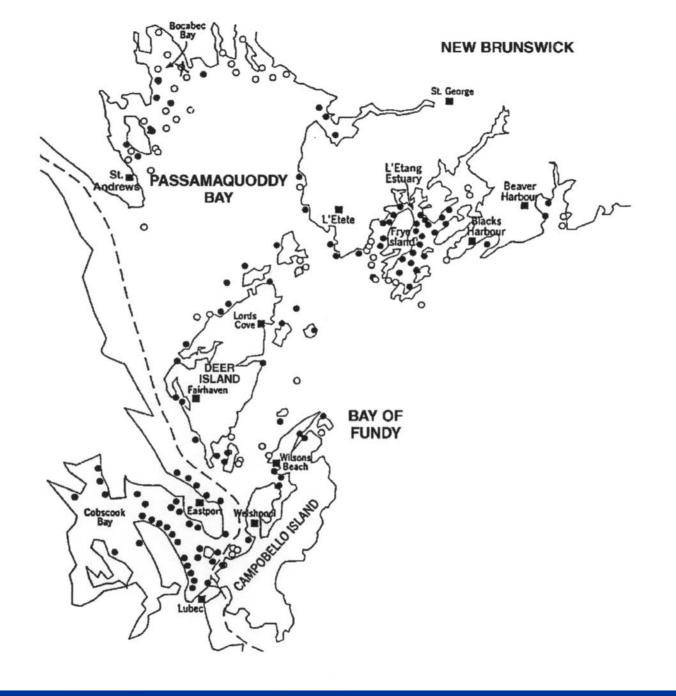
click on word above for definition

Causes of declines

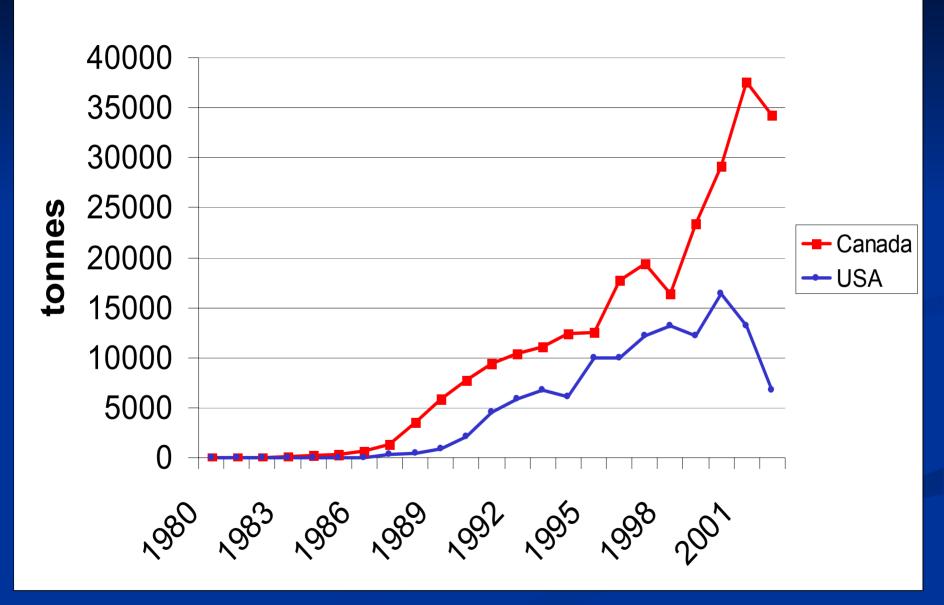
- 63 officially sanctioned hypotheses
- Include factors in both fresh water and marine environment
- At sea survival problem. Smolt survival is about an order of magnitude lower now



CAGE SITES



East Coast farm production

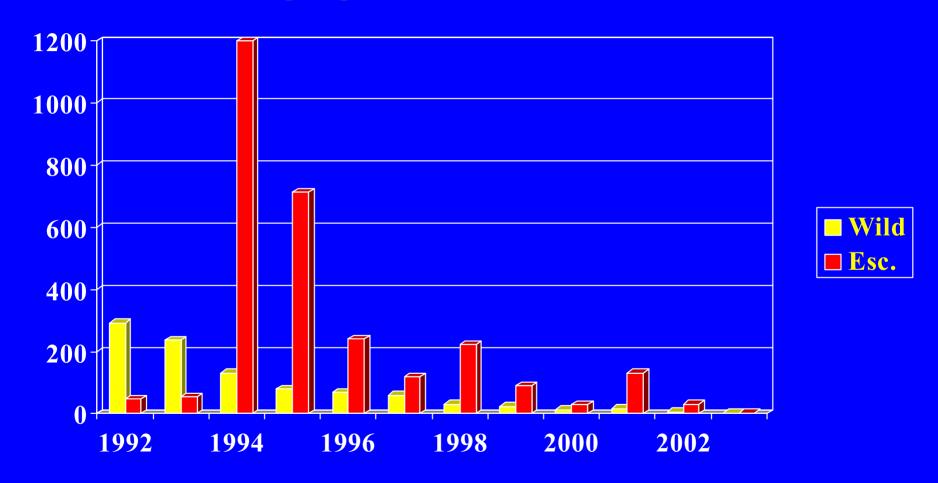


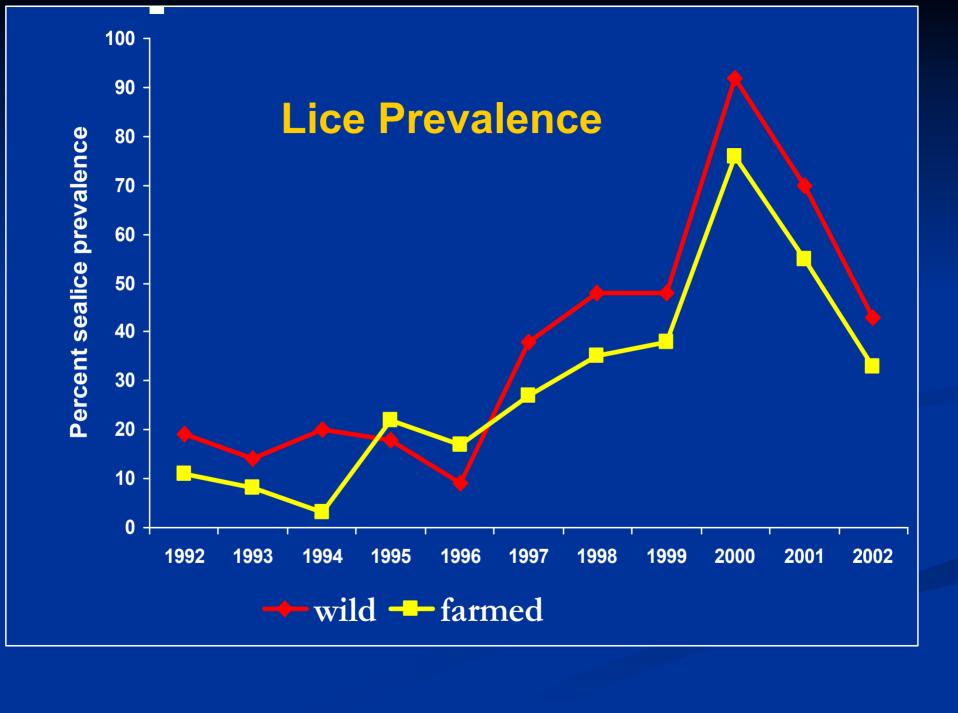
Aquaculture: ASF Issues

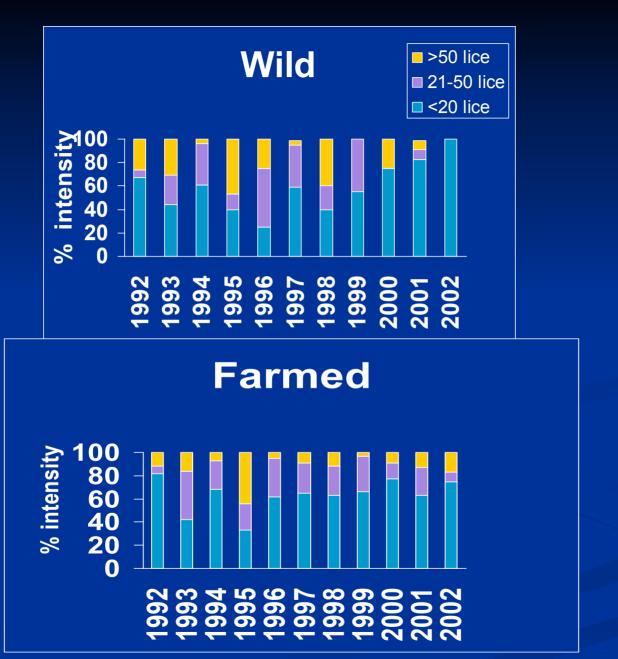
- Genetics
- Diseases and Parasites
- EcologicalInteractions
 - Competition
 - Exotic sp.
 - Wastes



Magaguadavic returns







Summary

- Higher prevalence and intensity levels on wild salmon
- Total lice counts similar between wild & farmed salmon
- Damage restricted to escapees
- Valid sampling?

ISA

- Norway 1984, Canada (East) 1996,
 Scotland 1998, Chile (disputed) 2000,
 Faroes 2001, USA 2001, Ireland 2002
- Positive tests, wild (3/15) and escapees (4/58) Magaguadavic 1999. Scotland wild fish in 1999.
- None since

Conclusion

- Cautiously optimistic
 - Downward trend escapees; containment agreement
 - ISA control
 - Lice: no upward trend
- Production increases mandate tighter standards?